CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KVSR/W.No.10/CSR-04/325a/CEMENT/2017-18 Date: 21.04.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. K.V. Subbareddy,** Contractor, Bangalore.
*** Name of Work**	:	Drilling of Borewells and Providing Pump Motor and other Accessories to borewell in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/20/2017-18 Dated: 19.04.2017
*** Sample ID**	:	Cement
Sample Received on	:	19.04.2017
Period of Testing	:	19.04.2017 to 21.04.2017

he results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	27.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	175 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	465 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	0.75 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

AEE (VRP) SD

Note:

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/KVSR/W.No.10/CSR-04/325a/SAND-Gradation/2017-18 21.04.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. K.V. Subbareddy,** Contractor, Bangalore.
*** Name of Work**	:	Drilling of Borewells and Providing Pump Motor and other Accessories to borewell in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/20/2017-18 Dated: 19.04.2017
*** Sample ID**	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	19.04.2017
Date of Testing	:	21.04.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.20	90-100	90-100	90-100	95-100
2.36	78.20	60-95	75-100	85-100	95-100
1.18	61.70	30-70	55-90	75-100	90-100
600 Micron	33.70	15-34	35-59	60-79	80-100
300 Micron	18.20	5-20	8-30	12-40	15-50
150 Micron	5.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/KVSR/W.No.10/CSR-04/325a/AGG/GR/2017-18 21.04.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. K.V. Subbareddy,** Contractor, Bangalore.
*** Name of Work**	:	Drilling of Borewells and Providing Pump Motor and other Accessories to borewell in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/20/2017-18 Dated: 19.04.2017
*** Sample ID**	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	19.04.2017
Date of Testing	:	21.04.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.16	95-100	85-100
20	36.04	30-70	0-20
10	12.12	10-35	0-5
4.75	3.72	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KVSR/W.No.10/CSR-04/325a/Cube/2017-18

22.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. K.V. Subbareddy,** Contractor, Bangalore.
*** Name of the work**	:	Drilling of Borewells and Providing Pump Motor and other Accessories to borewell in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/20/2017-18 Dated: 19.04.2017
*** Sample ID**	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{15}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	22.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.04.2017	22.05.2017	8.366	365.2	16.23
2	24.04.2017	22.05.2017	8.023	385.1	17.12
3	24.04.2017	22.05.2017	8.478	378.0	16.80

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Job No.: CTCE/BBMP/KVSR/W.No.10/CSR-04/325a/Cube/2017-18

25.05.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K.V. Subbareddy,** Contractor, Bangalore.
* Name of the work	:	Drilling of Borewells and Providing Pump Motor and other Accessories to borewell in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/20/2017-18 Dated: 19.04.2017
* Sample ID	:	Covering Slab Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.05.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.04.2017	25.05.2017	8.222	512.2	22.77
2	27.04.2017	25.05.2017	8.347	501.9	22.30
3	27.04.2017	25.05.2017	8.345	485.2	21.56

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